

Some Observations Regarding the Behavior of  
Quartz Sand and Powdered Quartz in Glass Melts,  
by A. Dietzel, H. Wickert.

GERMAN, per, Glastech Ber, Vol XXVII, 1954,  
pp 170-172.

ASLIB-GE105

Sci  
Aug 58

78, 791

Correction Procedures for the Flame-Photometric  
Sodium Determination ~~mf~~ in the Presence of  
Calcium, by Friedrich Hegemann, Barbara Pfab,  
9 pp.

GERMAN, per, Glastechnische Berichte, Vol XXVII,  
No 6, 1954, pp 189-192. 9688755

DEC RSIC-72

Sci - Chem  
Nov 63

241,676

Brüche, Ernst and Schimmel, Gerhard.  
ABOUT THE SCRATCHING OF GLASS BELOW ONE  
MICRON SCRATCH TRACT WIDTH (Über das Ritzen  
von Glas unter 1  $\mu$  Ritzspurbreite). [1961] [31 p.  
(foreign text included) 29 refs.  
Order from SLA \$3.60

61-20840

Trans. of Glastechnische Berichte (West Germany)  
1954, v. 27, no. 7, Sonderdruck, p. 239-247.

DESCRIPTORS: \*Glass, Diamonds, Electron micro-  
scopes, Plasticity, Temperature, Fracture  
(Mechanics), Elasticity, Deformation, Cutting tools

(Materials--Ceramics, TT, v. 7, no. 5)

61-20840

I. Brüche, E.  
II. Schimmel, G.

Office of Technical Services

Ramsauer, Rembert.  
APPLICATION OF THE SCHLIEN MICROSCOPE  
FOR THE INVESTIGATION OF LAYER STRUC-  
TURES IN PLATE GLASS (Anwendung des  
Schlierenmikroskopes zur Untersuchung der Schicht-  
ung von Tafelglas). Paper read at the Glass Techno-  
logical Convention (no. 28) Hamburg, 20 May 54. [1962]  
[31]p. (foreign text included) 8 refs.  
Order from SLA \$3.60

62-14883

Trans. of Glastechnische Berichte (West Germany)  
1954, v. 27, no. 10, p. 374-381.

DESCRIPTORS: \*Glass, Microstructure, Micro-  
analysis, Microscopy, \*Schlieren photograph, Re-  
fractive index, Optics.

(Materials--Ceramics, TT, v. 8, no. 5)

62-14883

I. Ramsauer, R.  
II. Title: Glass...

Office of Technical Services

Analysis of Schlioren and Layers by Etching  
and Interference Measurements, by J. Loffler.

GERMAN, per, Glastechnische Berichte,  
Vol XXVII, 1954, pp 381-392.

CSIRO

SLA 62-11821

Sci - Phys  
Aug 62

211, 323

The Behavior of Glass - Flow and Relaxation,  
by Paul G. Migeotte, Henri P. C. Vandescapelle,  
18 pp.

GERMAN, per, Glastechnische Berichte, Vol XXVII,  
No 11, 1954, pp 405-409.

SIA 60-16845

Sci  
Vol IV, No 7  
May 1962

193, 701

Concerning the Silicate Decomposition  
According to W. Pukall, by W. Geilmann,  
A. Maenssle.  
GERMAN, per, Glastechnische Berichte,  
Vol 28, No 1, 1955, pp. 16-8.  
NTC 69-11731-11B

Sci-Rhem  
July 69

386,672

A Simple Experiment for Producing  
Fracture Lines by Mechanical Impulses,  
by F. Kerkhof.

GERMAN, per, Glastechnische Berichte,

Vol 28, No 2, 1955, pp. 57-8

NTC 69-11732-11B

Sci-Mat

July 69

386,673



Contribution to the Knowledge of Old  
Glasses. Part III. The Chemical Compos-  
ition of Some Ancient Glasses. Especially  
of German Glasses of the 10th to the 18th  
Centuries, by W. Geilmann.

GERMAN, per, Glastechnische Berichte,  
Vol 28, No 4, 1955, pp. 146-56.

NTC 69-11733-11B

Sci-Mat

July 69

386,674

On the Radiation ~~Flow~~ on the Interior of Glass  
Tanks, by Marianus Czerny, Ludwig Genzel,  
Gerhard Heilmann, 21 pp.

GERMAN, per, Glastech Berichte, Vol XXVIII,  
No 5, 1955, pp 185-190.

SLA 60-18513

Sci

203,545

Jul 62

Vol 4, No 12

Internal Pressure Testing of Glass  
Bottles, by L. H. Lehnert.

GERMAN, per, Glastechnische Berichte,  
Vol XXVIII, No 7, 1955, pp 259-262.

105180

Sci - Engr  
Doc 61

175, 754

Investigations Into the Causes of Breakdown of  
Regenerator Chequer Refractories in Glass  
Furnaces, by E. Steinhoff, 6 pp.

GERMAN, per, Glastechnische Berichte,  
Vol XXVIII, No 7, 1955, pp 266-272.

CSIRO

Sci - Phys  
Nov 61

205-272 OTS 62-18207  
(63-14034)

174,382

Temperature Measurements in Glass Melting  
Tanks, by R. Gunther, 4 pp.

GERMAN, per, Glastechnische Berichte,  
Vol XXVIII, No 8, 1955, pp 295-299.

CSIRO

Sci - G Phys  
Nov 61

174,380

Dependence of the Transformation Temperature of  
SF 1511 Glass on the Previous Heat Treatment and  
on the Conditions of the Experiment, by F. Rahlfs,  
K. P. Zebel. UNCLASSIFIED

GERMAN, per, Glastech Berichte, Vol XXVIII, No 8,  
1955, pp 310-312.

DSIR/32470/CT

Sci - Chem; Page  
Cat 58

75,432

Temperature Measurements in Glass Molds,  
by W. Trier. 63 p.  
GERMAN, per, Glastechnische Berichte,  
Vol 28, No 9, 1955, pp 336-351.  
SIA TT-66-10671

Sci-M&M  
Jul 66

305,599

Methods of Mould Cooling in Glass-Forming  
Machines, by R. Wille, 8 pp.

GERMAN, per, Glastechnische Berichte,  
Vol XXVIII, No 9, 1955, pp 351-359.

CSIRO

Sci - Phys  
Nov 61

174,383



Schreck, Carl Walter.  
CONTRIBUTION TO THE DETERMINATION OF THE  
HEAT FLUX IN THE WALLS OF GLASS MOLDS  
(Beitrag zur Ermittlung des Wärmeflusses in den  
Wänden von Glasformen). [1963] [38p] (foreign text  
included) 10refs  
Order from SLA \$3.60 63-18590

Trans. of Glastechnische Berichte (West Germany)  
1955, v. 28, no. 9, p. 359-368.

DESCRIPTORS: \*Glass, Molding, Heat transfer, Walls,  
Cooling, Temperature, Distribution, Determination,  
Thermal conductivity.

The heat flux and with it the temperature distribution  
in the mold can be discussed approximately as a  
stationary problem under the condition of constant  
heat flow density at the internal margin. The problem  
(Materials--Ceramics, TT, v. 10, no. 10) (over)

63-18590

1. Schreck, C. W.

Office of Technical Services

Scholze, Horst and Dietzel, Adolf.  
INVESTIGATIONS ON THE WATER CONTENT OF  
GLASSES THROUGH DETERMINATION OF THE IN-  
FRARED ABSORPTION IN THE RANGE FROM 1 TO  
5  $\mu$  (Untersuchungen über den Wassergehalt von  
Gläsern durch Bestimmung der Ultrarot-Absorption im  
Bereich von 1 bis 5  $\mu$ ). [1962] [21]p. (foreign text  
included) 42 refs.  
Order from SLA \$2.60

62-10945

Trans. of Glastechnische Berichte (West Germany)  
1955, v. 28, no. 10, p. 375-380.

DESCRIPTORS: \*Water, \*Glass, \*Infrared radiation,  
\*Absorption, Iron, Sodium, Calcium, Hydroxides,  
High temperature research.

A literature compilation is given on the infrared ab-  
sorption of glasses in the range from 1 to 5  $\mu$ , with  
special regard for the bands produced by OH- or  
(Materials--Ceramics, TT, v. 8, no. 7) (over)

62-10945

I. Scholze, H.  
II. Dietzel, A.

Office of Technical Services

The Fundamental Reactions in the Process of Fusion  
of Sulphate Glass, by C. Kroger, E. Vogel.

GERMAN, per, Glastech Ber, Vol XXVIII, 1955,  
pp 426-437.

INSDOC-T1383

Sci  
Aug 58

70,795

The Action of Silicon Containing Lacquer Protective  
Agents on Windscreens, by R. Ransauer.

GERMAN, per, Glastech Ber, Vol XXVIII, No 12, 1955  
pp 451-455.

DSIR/31209/CT

Sci - Chem  
Feb 58

58, 856

Electron Microscope Investigations  
of Fracture Surface of Opal Glass,  
by F. Kerkhof, R. Seeliger. W. Westphal.  
GERMAN, per, Glastechnische Berichte,  
Vol 28, No 7, 1955, pp. 262-4.  
NTC 69-11730-11B

Sci-~~Ham~~  
July 89

386,671

Replica Techniques Useful for the  
Investigation of Glass Surfaces  
Microscopically, by W. Geilman, G.  
Toelg.

GERMAN, per, Glastechnische Berichte,  
Vol 28, No 8, ~~195529pp~~ 307091807  
Ntc 69-11734-11B

*No. 8, 1955 R209.307*

Sci-Mat  
July 69

386,675

Dietzel, Adolph and Brijckner, Rolf.  
CONSTRUCTION OF AN ABSOLUTE VISCOSIMETER  
FOR HIGHER TEMPERATURES AND ITS CALIBRA-  
TION BY MEASURING OF VISCOSITIES OF MOLTEN  
BORIC ACID. 30p 26refs  
Order from SLA \$2.60

TT-64-16336

Trans. of Glastechnische Berichte (West Germany)  
1955, v. 28 [no. 12] p. 455-467.

(Materials--Ceramics, TT, v. 12, no. 3)

TT-64-16336

I. Dietzel, A.  
II. Brijckner, R.

Office of Technical Services

On the Dissipation of Heat in Glass at High Temperatures, Pt. 3, by W. Geffcken.

GERMAN, Par, Glastech Ber, Vol XXIX, No 2, 1956, pp 42-49.

SLA 60-16858  
ASLIB-GB105

Sci

AUG 59

94,177



The Fining of Glass by Introducing  
Additional Gases in the Melt, by J. ~~Widmann~~  
Widtmann.

GERMAN, per, Glastechnische Berichte,  
Vol 29, No 2, 1956, pp. 37-42.

NTC 69-11729-11B

Sci-~~Sci~~em

July 69

386,670

Riedel, Leopold.  
OBSERVATIONS ON STREAMS AND DROPS  
(Beobachtungen an Flüssen und Tropfen). [1962] 5p.  
1 ref.

Order from SLA \$1.10

62-18203

Trans. of Glastechn[ische] Ber[ichte] (West Germany)  
1956, v. 29, no. 2, p. 49-51.

DESCRIPTORS: \*Glass, Processing, Ceramic materials  
Solutions, \*Fused materials, \*Melting, Temperature,  
Silicates, Impurities, \*Quartz crystals, Quartz.

(Materials--Ceramics, TT, v. 9, no. 5)

62-18203

1. Title: Cohart block  
1. Riedel, L.

Office of Technical Services

On Thermoelectric Phenomena in Glass,  
by W. Oldekop.

GERMAN, per, Glastechnische Berichte,  
Vol XXIX, 1956, pp 73-78.

ASLIB GB 105

SCI 10

Sci - Phys  
Apr 62

192, 107

Experimented Investigation of Bubble Formation in  
Electrically Heated Model Glass Tanks, by H.  
Shmiede.

GERMAN, per, Glastech Ber, Vol XXIX, No 3, Mar 1956,  
pp 78-83.

ASLIB-GR105

Sci

SLA 63-14065

Aug 59

94, 183

On the Sensitivity of the Interference and  
"Schlieren" Methods of Examining Layering  
in Sheet Glass, by E. Hannes.

GERMAN, per, Glastechnische Berichte,  
Vol XXIX, No 3, 1956, pp 83-89.

RECHIRO

Sci - Phys  
Jun 62

199,602

Electron Microscope Investigations on Weathered  
Glass Surfaces, by F. Oberlies.

GERMAN, per, Glastechnische Berichte, Vol XXIX,  
No 4, Apr 1956, pp 107-120.

ATLIB-GB105

Sci

Aug 59

95,372

Observations on the Action of Dilute Hydro-  
fluoric Acid on Glass Surfaces, by Boneff,  
Stoyan, Schwiete, Hans Ernst, 29 pp.

GERMAN, per, Glastechnische Berichte, 1956,  
Vol XXIX, No 4, pp 120-128.

SLA 59-10616

Sci - Chem  
OBS I, 12  
Jul 59

92, 296

The Structure at the Edge of Water Droplets  
in Contact with Glass and Its Significance,  
by Hans Jepsen-Marvedal, 8 pp.

GERMAN, per, Glastech Ber, 1956, Vol XXIX,  
No 4, pp 128-130.

SLA 59-10618

Sci - Phys  
OTS I, 12  
Jul 59

92, 302



Witten, Johannes Loeffler.  
TESTING OF SHEET GLASS FOR SENSITIVITY TO  
CLIMATE. [1962] 16p. (5 figs. 21 refs. omitted).  
Order from SLA \$1.60 n2-14499

Trans. of Glastechn[ische].Ber[ichte] (West Germany)  
1956, v. 29, no. 4, p. 131-137.

DESCRIPTORS: \*Glass, Sensitivity, \*Climatic factors,  
Test methods.

Sheet glass is decomposed by moisture only in its  
packing, either by wet rain or when stored in moist  
rooms. Two types of decomposition appear as damages,  
which show, however, the same technical course and  
produce the same typical defect, the so-called dulling,  
which is absence of reflection by chemical changes in  
the top layer. The testing method described here re-  
produces, in contrast to all other methods, the defect  
(Materials--Ceramics, TT, v. 8, no. 1) (over)

62-14499

I. Witten, J. L.

Office of Technical Services

Water Durability of Glass as Determined by  
the German Powder Titration Method DIN 12111,  
by Ernst Wiegel, 33 pp.

GERMAN, per, Glastech Ber, 1956, Vol XXIX,  
No 4, pp 137-144.

SLA 59-10617

Sci - Phys  
OTS I, 12  
Jul 59

92, 309

Introduction to the Fundamentals of Glass  
Structure, by Otto W. Flörke, Lothar H. Lehnert,  
Horst Scholze, 19 pp.

GERMAN, per, Glastechnische Berichte, 1956,  
Vol XXIX, No 5, pp 169-174.

SLA 59-10615

Sci - Chem  
OES I, 12  
Jul 59

92,297

Günther, Rudolf and Kahlert, Wolfgang.  
VARIATIONS IN THE HEAT CONSUMPTION OF TANKS  
AND THEIR CAUSES (Veränderungen des  
Wärmeverbrauchs von Wannen und ihre Ursachen).  
[1962] [36]p. (foreign text included) 9 refs.  
Order from SLA \$3.60 62-18112

Trans. of Glastechn[ische] Ber[ichte] (West Germany)  
1956, v. 29, no. 5, p. 174-183.

DESCRIPTORS: \*Glass, Melting, \*Heat exchangers,  
Heat of fusion, Tanks, Numerical analysis, Curve  
fitting, Periodic variations, \*Fuel consumption, Gas  
generating systems, Specific heat, Aging.

(Materials--Ceramics, TI, v. 9, no. 3)

62-18112

1. Title: Tank furnaces
- I. Günther, R.
- II. Kahlert, W.

Office of Technical Services

Dynactive Liquid-Pairs, Their Behavior and  
Practical Significance for Glass Melting,  
by Hans Jebsen-Marwedel, 21 pp.

GERMAN, per, Glastechnische Berichte, 1956,  
Vol XXIX, No 6, pp 233-234.

SLA 59-10608

Sci - Chem  
OTS I, 12  
Jul 59

92, 299

62-14863

Baier, Ernst, Schefer, Werner, and Steinwehr  
Helmut Ernst v.

CONCERNING THE COLORATION OF BORAX GLASSES  
BY IRON (Über die Färbung von Boraxgläsern durch  
Eisen). [1962] [15] p. (foreign text included) 15 refs.  
Order from SLA \$1.60 62-14863

Trans. of Glastechn[ische] Ber[ichte] (West Germany)  
1956, v. 29, no. 6, p. 247-251.

DESCRIPTORS: \*Glass, \*Borax, \*Iron, \*Color, Spec-  
trographic analysis.

The authors were able by metal-addition to obtain pure  
ferro-borax glasses, and to demonstrate their ferri-  
freedom chemically and optically. Production and test-  
ing are described, and some spectral permeability  
curves are reproduced. The visual color of the pure  
ferro-glasses was blue. (Author)  
(Materials--Ceramics, TT, v. 9, no. 1)

- I. Baier, E.
- II. Schefer, W.
- III. Steinwehr, H. E. v.

Office of Technical Services

Cords in Glass - a Consequence of the  
"Dyactive" Behaviour of "Schieren", by  
H. Jahnharwedel,

GERMAN, per, Glastechnische Berichte, Vol XXIX,  
No 7, pp 269-275. 1956

SHA 62-14002

C.B.I.R.O.

Sci - Chem

May 60

116,927

Origin and Tasks of the Glass Division of  
the State Materials Testing Station in  
Darmstadt, by Heinrich Wiegand, 20 pp.

GERMAN, per, Glastech Ber, 1956, Vol XXIX,  
No 8, pp 309-313.

SLA 59-10620

Sci - Phys  
OBS I, 12  
Jul 59

92; 308



62-14869

Lehnert, Lothar H.  
DEVELOPMENT OF STANDARD TESTING METHODS  
FOR HOLLOW GLASS VESSELS (Entwicklung von  
Normprüfverfahren für Hohlglasgefäße). [Paper  
presented] at the Glass Technology Meeting (no. 30)  
Tübingen, 16 May 56. (foreign text included) 14 refs.  
Order from SLA \$1.60 52-14869

Trans. of Glastechnische Berichte (West Germany)  
1956, v. 29, no. 8, p. 314-318.

DESCRIPTORS: \*Glass, Containers, Test methods,  
Standards, Quality control, \*Pressure vessels,  
Materials.

(Materials, TT, v. 8, no. 4)

I. Lehnert, L. H.  
II. Title: Glass...

Paetsch, Hans Hermann and Dietzel, Adolf.  
INVESTIGATIONS ON THE  $\text{PbO-SiO}_2\text{-P}_2\text{O}_5$  SYSTEM  
(Untersuchungen über das System  $\text{PbO-SiO}_2\text{-P}_2\text{O}_5$ ).  
[1962] [47]p. (foreign text included) 42 refs.  
Order from SLA \$4.60

62-16461

Trans. of Glastechnische Berichte (West Germany)  
1956, v. 29, no. 9, p. 345-356.

DESCRIPTORS: \*Glass, \*Phosphate glass, \*Silicates,  
\*Lead compounds. Oxides, Microstructures, X-ray  
diffraction analysis

The  $\text{PbO}$ -rich corner of the three-substance system  
 $\text{PbO-SiO}_2\text{-P}_2\text{O}_5$  was examined with thermal, micro-  
scopic and X-ray methods. The results available from  
the binary systems  $\text{PbO-SiO}_2$  and  $\text{PbO-P}_2\text{O}_5$  were con-  
firmed in general and supplemented in part. The ter-  
nary system is characterized by a wide region of dis-  
sociation and by the appearance of a ternary compound  
(Materials--Ceramics, TT, v. 8, no. 7) (over)

62-16461

I. Paetsch, H. H.  
II. Dietzel, A.

Office of Technical Services

Wetting Properties and Mechanical Strength of Glass  
to Metal Seals, by W. Weiss.

GERMAN, per, Glastech Ber, Vol XXIX, No 10, 1956,  
pp 386-392.

TIL Tr 4824

Sci - Physics  
Mar 58

59,170

Heats of Solution and Formation of Sodium  
Silicates, by C. Kroger, G. Kreitlow,

GERMAN, per, Glastechnische Berichte,  
Vol XXIX, No 10, pp 393-400, 1956,

C.S.I.R.O.

Sci - Chem

May 60

116,928

OTS 62-12121

Flame Studies; Methods and Results, by  
Rudolf Gunther, 37 pp.

GERMAN, per, Glastechnische Berichte, 1956,  
Vol XXIX, No 11, pp 417-426.

SLA 59-10614

Sci - Chem  
OTS I, 12  
Jul 59

92,265

Trier, Wolfgang.  
ON THE DEVELOPMENT OF FLAMES (über die  
Ausbildung von Flammen). [1962] [10]p. (foreign text  
included) 6 refs.  
Order from SLA \$1.10 62-10949

Trans. of Glastechn[ische] Berichte (West Germany)  
1956, v. 29, no. 11, p. 426-428.

DESCRIPTORS: \*Flames, Gases, Combustion, Gas  
flow, Turbulence, Jets, Jet mixing flow, Flame  
propagation, \*Glass, Melting.

The processes which contribute decisively to the for-  
mation of flames are discussed. A mathematical con-  
ception and tying in of the individual fundamental  
magnitudes is today possible to a certain extent only in  
flames which burn like sets. Pertinent English and  
American works are referred to. (Author)

(Materials--Ceramics, TT, v. 8, no. 6)

62-10949

I. Trier, W.

Office of Technical Services

TT-64-14039

Gott, Otto.  
COLOR MEASUREMENT (Farbmessung). [1963] [21p]  
(foreign text included) 17 refs  
Order from SLA \$2.60

TT-64-14039

1. Gott, O.

Trans. of Glastechnische Ber[ichte] (West Germany)  
1956, v. 29, no. 12, p. 453-459.

(Materials--Ceramics, TT, v. 11, no. 12)

Office of Technical Services

The Examination of the Breakage Process with  
Supersonic Techniques, by Frank Kerkhof, Helmut  
Dreizler, 46 pp.

GERMAN, per, Glastechn Ber, 1956, Vol XXIX,  
No 12, pp 459-470.

SLA 59-10619

Sci - Phys  
ONS I, 12  
Jul 59

92, 303



On the Calculation Of the Radiation Flux In the  
Glass Metal In Tank Furnaces, by M. Czerny and  
L. Cenzel.

GERMAN, per, Glastechnische Berichte, Vol XXX,  
No 1, 1957, pp 1-7.

CSIRO

SLA 63-14647

Oct. 62

Theoretical Considerations on the Viscosity  
of Glass, by W. Oldekop, 25 pp.

GERMAN, per, Glastech Ber, 1957, Vol XXX,  
No 1, pp 8-14.

SLA 59-10621

Sci - Phys  
OTS I, 12  
Jul 59

92, 307

On the Structure of Quartz Glass, by F. Oberliss,  
A. Dietzel,

GERMAN, per, Glastechnische Berichte, Vol XXX, No 2,  
pp 37-42. 1957

C.S.I.R.O.

Sci

May 60

116,098

On the Velocity, Mechanism and Formation of  
New Phases of Solid State Reactions in  
Melting, by Carl Kroger, 34 pp.

GERMAN, per, Glastechn Ber, 1957, Vol XX,  
No 2, pp 42-52.

SLA 59-10611

Sci - Phys  
OTB I, 12  
Jul 59

97,305

Lehnert, Lothar H.  
THE HEAT SHOCK TESTING OF GLASS AND  
GLASS CONTAINERS (Die Wärmestossprüfung von  
glas und Glasgefassen). [1963] [16p] (foreign text  
included) 52refs  
Order from SLA \$1.60                      63-20370

Trans. of Glastechnische Berichte (West Germany)  
1957, v. 30, no. 3, p. 79-83.

DESCRIPTORS: \*Containers, \*Glass, Temperature,  
Stability, Shock resistance, Thermal stresses,  
\*Quenching (Cooling).

Among the various testing possibilities for the deter-  
mination of the temperature change stability of glass,  
the quenching test was selected and standardized. Ac-  
cording to DIN 52,325 the working material "glass" is  
tested with the aid of well defined samples which must  
be free of strain. According to DIN 52,321 the influence  
(Materials--Ceramics, IT, v. 10, no. 12) (over)

63-20370

I. Lehnert, L. H.

Office of Technical Services

A Fixed Point of the Viscosity in the  
Processing Region of Glasses. Rapid  
Determination of the Viscosity-Temper-  
ature Course, by A. Dietzel, R. Brueckner.  
GERMAN, per, Glastechnische Berichte,  
Vol 30, No 3, 1957, pp. 73-9.  
NTC 69-11728-11B

Sci-Mat  
July 69

386,669

The Alkali Loss of the Glass Surface in Hot  
Forming, by Johannes Löffler, 16 pp.

GERMAN, per, Glastech Ber, 1957, Vol XXX,  
No 3, pp 88-94.

SLA 59-10610

Sci - Phys  
OTS I, 12  
Jul 59

92, 306

Riedel, Leopold.

METHODS FOR TESTING HOMOGENEITY OF MIXTURES (Verfahren zur Prüfung der Homogenität von Gemengen). Paper [presented at] annual meeting of Hüttentechnische Vereinigung der Deutschen Glasindustrie, Bad Neuenahr, 12 Oct 56. [1962] [10]p. (foreign text included) 10 refs.

Order from SLA \$1.10

62-18134

Trans. of Glastechnische Berichte (West Germany) 1957, v. 30, no. 4, p. 113-115.

DESCRIPTORS: \*Glass, \*Mixtures, Distribution, Test methods.

Methods of testing homogeneity of mixtures, especially with cullet, are discussed, and ways of further separating the portions insoluble in water and acid are illustrated. (Author)  
(Materials--Ceramics, TT, v. 9, no. 4)

62-18134

- I. Title: Cullet
- I. Riedel, L.
- II. Title: Hüttentechnische ...

Office of Technical Services



Günther, Rudolf.  
EFFECT OF MIXTURE PREPARATION AND CHARG-  
ING ON HOMOGENEITY (Einfluss der Gemenge-  
bereitung und des Einlegens auf die Homogenität).  
Paper before annual meeting of Hüttentechnische  
Vereinigung der Deutschen Glasindustrie, Bad Neu-  
enahr, 12 Oct 56. [1962] 8p. (foreign text included)  
7 refs.  
Order from SLA \$1.10

62-14497

Trans. of Glastechn[ische] Ber[ichte] (West Germany)  
1957, v. 30, no. 4, p. 115-116.

DESCRIPTORS: \*Mixtures, Weights (Analytical),  
\*Glass, Moisture, Sand, \*Fused materials, Chemical  
analysis, Production.

The various possible effects of mixers, handling equip-  
ment, storage bins, addition of cullet, and charging  
machinery on homogeneity of mixtures are discussed.  
(Author)

62-14497

I. Günther, R.  
II. Title: Hüttentechnische ...

(Materials--Ceramics, TT, v. 8,  
no. 2)

Office of Technical Services

Löffler, Johannes.  
EFFECT OF FUSION PROCESS, PARTICULARLY IN  
ITS EARLY STAGES, ON HOMOGENEITY (Über den  
Einfluss des Einschmelzvorganges insbesondere seiner  
Ersten Stadien auf die Homogenität). [1964] [19p]  
(foreign text included) 20refs  
Order from SLA \$1.60

TT-64-10571

Trans. of Glastechnische Berichte (West Germany)  
1957, v. 30, no. 4, p. 117-121.

TT-64-10571

1. Löffler, J.

(Materials--Ceramics, TT, v. 12, no. 3)

Office of Technical Services

The Melting and Dissolving of Sand in Glass,  
by Hans Jebesen-Marvedel, 20 pp.

GERMAN, per, Glastech Ber., 1957, Vol XXX,  
No 4, pp 122-129.

SLA 59-10613

Sci - Chem  
OTS I, 12  
Jul 59

92, 300

Diffusion Patterns Around a Sand Particle, by  
Johannes Loeffler, 14 pp.

GERMAN, for, Glastech Ber, Vol XXX, No 4, 1957,  
pp 129-133.

SLA 59-10609

Sci. - Phys  
Sep 59  
Vol 2, No 1

97, 922

Weber-Klein, Paul.

THE RAW MATERIAL ECONOMY OF A GLASS  
SMELTER, I (Die Versorgungswirtschaft einer  
Glashütte I). [1962] [26]p. (foreign text included)  
27 refs.

Order from SLA \$2.60

62-10951

Trans. of Glastechnische Berichte (West Germany)  
1957, v. 30, no. 5, p. 157-163.

DESCRIPTORS: \*Glass, \*Smelting, Fuel consumption,  
Gases, Oils, Fuels, Economics.

Discussed are the construction, the operation, the  
supervision by measurements of producer gas, pipe-  
line-gas, oil-heating, and bottled-gas installations on  
the base of practical experience and statements from  
the literature. (Author)

(Materials--Ceramics, TT, v. 8, no. 6)

62-10951

I. Weber-Klein, P.

Office of Technical Services

A Method for Combined Microscope and X-Ray  
Examination of Stones in Glass, by Nina Koppen,  
Otto W. Florke, 11 pp.

GERMAN, per, Glastech Ber, 1957, Vol XXX,  
No 5, pp 182-186.

SLA 59-10512

CSIRO

Sci - Phys

OTS I, 12

Jul 59

92, 304

Contribution to the Knowledge of the Mean Specific Heat  
Heats of Some Technically Important Glasses. XII.  
The Specific Heat of a Barium Glass, by H. Hartmann,  
K. H. Kieselring, 10 pp.

GERMAN, per, Glastechn Ber, Vol XIX, No 5, 1957,  
pp 186-188.

SLA 59-10607

Sci - Phys  
Sep 59  
Vol 2, No 1

97,919

Weber-Klein, Paul  
THE RAW MATERIAL ECONOMY OF GLASS  
SMELTER, II (Die Versorgungswirtschaft einer  
Glashütte II). [1962] [40]p. (foreign text included)  
18 refs.  
Order from SLA \$3.60

62-10952

Trans. of Glasstechnische Berichte (West Germany)  
1957, v. 30, no. 6, p. 213-221.

DESCRIPTORS: \*Glass, \*Smelting, Blowers, Com-  
pressed air, Oxygen consumption, Water supplies,  
Industrial equipment, Economics.

The construction and the operation of installations is  
reported on, also of standby equipment, for the air  
for blowers, for vacuum, compressed air, oxygen,  
water needed in plant operations, warm water, cold  
water, steam, also described are installations which  
receive the electric current from an external source  
(Materials--Ceramics, TT, v. 8, no. 6) (over)

62-10952

1. Weber-Klein, P.

Office of Technical Services



Dietzel, Adolph and Deeg, Emil.  
A DYNAMIC MODEL OF GLASS STRUCTURE (Ein  
Dynamisches Modell der Glasstruktur). [1962]. [18]p.  
(foreign text included) 8 refs.  
Order from SLA \$1.60

62-18108

Trans. of Glastechn[ische] Ber[ichte] (West Germany)  
1957, v. 30, no. 7, p. 282-287.

DESCRIPTORS: \*Glass, Dynamics, Crystal structure,  
Model tests, Tensile properties, \*Fused materials,  
Dioxides, Silicon compounds, Polarization, Ions, Me-  
chanical properties, Stresses.

(Materials--Ceramics, TT, v. 9, no. 3)

62-18108

1. Title: Quenching
- I. Dietzel, A.
- II. Deeg, E.

Office of Technical Services

Contribution to the Optical Examination of Flat  
Glass in Reflected Light, by Konrad Metzger, 13 pp.

GERMAN, per, Glastechn Ber, Vol XXX, No 7, 1957,  
pp 296-299.

SLA 59-10928

Sci - Phys  
Sep 59  
Vol 2, No 1

97, 924

On Quartz Glasses which Absorb the Ozone-  
Producing Radiation Below 2000 Angstrom,  
by H. Mohn. 18 p.  
GERMAN, per, Glastechnische Berichte,  
Vol 29, No 12, 1956, pp 483-487.  
SLA TT-66-10677

Sci-M&M  
Jul 66

306,004

On the Structure of Quartz Glass,  
by F. Oberlies, A. Dietzel. <sup>24p.</sup>  
GERMAN, per, Glastechnische Berichte,  
Vol 30, No 2, 1957, pp 37-42.  
SLA TT-66-10676

Sci-M&M  
Jul 66

306,003

Giegerich, Wilhelm.  
RESULTS AND PROBLEMS OF MECHANICAL BOT-  
TLE PRODUCTION (Ergebnisse und Probleme der  
Maschinellen Flaschenfertigung). [1962] [31]p.  
(foreign text included) 50 refs.  
Order from SLA \$3.60

62-14984

Trans. of Glastechnische Berichte (West Germany)  
1957, v. 30, no. 7, p. 299-307.

DESCRIPTORS: \*Containers, \*Glass, Production,  
Manufacturing methods.

(Materials--Ceramics, TT, v. 8, no. 8)

62-14984

1. Giegerich, W.

Office of Technical Services

Development of Glassmelting Pot Furnaces, by Rudolf  
Gunther, Wolfgang Trier, Karl Heing Theissl, 39 pp.

GERMAN, per, Glastechnische Berichte, Vol XXX,  
No 7, 1957, pp 308-318.

SLA 59-10926

Sci - Engr

Jul 59

OTS I, 11

91,032

Coloring of Glass With Tellurium, by Yasuaki  
Hasegawa, Syoito Kawakubo, 11 pp.

GERMAN, per, deustech Ber., Vol XXX, No 8, pp 1957,  
pp 332-335.

SLA 59-10927

Sci - Engr  
Jul 59  
CIS I, 11

91, 133

Kerkhof, Frank.

ON THE OPTICAL TESTING OF GLASS PANES  
WITH UNEVEN SURFACES (Zur Optischen Prüfung  
von Glasscheiben mit Unebenen Oberflächen). [1962]  
[46]p. (foreign text included) 11 refs.  
Order from SLA \$4.60

62-16414

Trans. of Glastechnische Berichte (West Germany)  
1957, v. 30, no. 9, p. 369-379.

DESCRIPTORS: \*Glass, Wedges, Surfaces, Optics,  
\*Optical glass, Light transmission, Test methods,  
Refraction, Deflection

(Physics--Optics, TT, v. 8, no. 8)

62-16414

I. Kerkhof, F.

Office of Technical Services



Glass Density and Glass Structure, by Werner  
Schwiecker, 22 pp.

GERMAN, per, Glastech Ber, Vol XXX, No 9, 1957,  
pp 379-386.

SLA 59-10929

Sci - Phys

Sep 59

Vol 2, No 1

97, 925

Greschat, Karl Hans.  
THE HEATING UP OF GLASS MELTING TANKS  
(Über das Antempem von Glasschmelzwannen). [1963]  
[22]p. 10 refs.  
Order from SLA \$2.60

63-14058

Trans. of Glastechn[ische] Ber[ichte] (West Germany)  
1960, v. 93, no. 10, p. 370-376.

DESCRIPTORS: \*Glass, \*Furnaces, Heating, Design,  
Thermal insulation.

The forces and movements occurring during the heating  
up of glass melting furnaces have to be taken into  
account in the construction of these furnaces and  
especially in the development of the binding steel. In  
this respect several suggestions are made on the  
design. In addition to that, data was recently able to be  
collected on the improved control of the heat-up process  
(Materials--Ceramics, TT, v. 10, no. 5) (over)

63-14058

1. Greschat, K. H.

Office of Technical Services

62-10948

Thring, M. W.  
HEAT TRANSFER FROM OIL FLAMES IN MELT-  
ING FURNACES (Wärmelübergang aus Ölfammen in  
Schmelzöfen). Lecture at Glass Technical Convention  
(no. 31) Frankfurt a.M. 21 May 57. [1962] [47]p.  
(foreign text included) 27 refs.  
Order from SLA \$4.60

62-10948

Trans. of Glastechnische Berichte (West Germany)  
1957, v. 30, no. 10, p. 413-425.

DESCRIPTORS: \*Glass, \*Melting, Heat transfer,  
Combustion, Flames, Oils, Fuels, Jets, Gases.

Investigations on turbulent diffusion flames operated  
with gas and oil in the experimental furnace in Ymuiden  
led to the setting up of a formula which permits making  
a statement regarding the flame length in relation to  
the air drawn in by the jet. The emission capacity of  
the flame could also be calculated from the soot con-  
(Materials--Ceramics, TT, v. 8, no. 6) (over)

I. Thring, M. W.  
II. Title: Glass...

Office of Technical Services

Zircon Bricks as Fireproof Building Material for  
Glass Melting Furnaces, by Edward Steinhoff, 39 pp.

GERMAN, per, Glastech Ber, Vol XXX, No 10, 1957,  
pp 425-434.

SLA 59-10930

Sci - Engr  
Jul 59  
OTS I, 11

91,036

Konopicky, Kamillo, Gotthardt, Hans, and Köhler, Emil.

STUDY ON THE ABRASION PROCESS ON AN UNBURNED, SILICIC ACID RICH CHAMOTTE TANK BLOCK (Studie über den Verschleissvorgang an einem Ungebrannten, Kieselsäurerichen Schamotte-Werkstein). [19p] (foreign text included) 11 refs  
Order from SLA \$1.60

TT-64-16592

Trans. of Glastechn[ische] Ber[ichte] (West Germany) [1957] v. 30, no. 10, p. 434-440.

(Materials--Ceramics, TT, v. 12, no. 4)

TT-64-16592

- I. Konopicky, K.
- II. Gotthardt, H.
- III. Köhler, E.

Office of Technical Services

Kuhn, Peter and Schimmel, Gerhard.  
ELECTRON-MICROSCOPICAL INVESTIGATION OF  
GLASS FIBERS (Elektronenmikroskopische Unter-  
suchung von Glasfäden). [1961] [25]p. (foreign text  
included) 15 refs.

Order from SLA \$2.60

61-20842

Trans. of Glastechnische Berichte (West Germany)  
1957, v. 30, no. 11, p. 463-470.

DESCRIPTORS: \*Glass textiles, \*Synthetic fibers,  
\*Electron microscopy, Separation, Microanalysis,  
Gases, Selenium, Quartz, Lead, Fibers.

Very thin glass fibers were studied microscopically,  
directly without recourse to a replica process.  
During the irradiation, extremely thin fibers de-  
veloped (for quartz glass with diameters below 15 A. u.),  
which however could be picked-up unobjectionably.  
(Materials--Ceramics, TT, v. 7, no. 5) (over)

61-20842

I. Kuhn, P.  
II. Schimmel, G.

Office of Technical Services

Some Remarks On Lead Orthosilica and Germanate and  
Their Vitrefaction, by Marker and others.

GERMAN, per, Glastechnische Berichte, Vol XXX,  
No 11, 1957, pp 471-473.

CSIRO

SLA 62-16136

Oct. 62

Merker, Ludwig and Wondratschek, Hans.  
A SERIES OF GLASSES WITH UNUSUAL COM-  
POSITION (Eine Reihe von Gläsern Ungewöhnlicher  
Zusammensetzung). [1962] [8]p. (foreign text in-  
cluded) 5 refs.

Order from SLA \$1.10

62-16137

Trans. of Glastechn[ische] Ber[ichte] (West Germany)  
1957, v. 39, no. 11, p. 473-475.

DESCRIPTORS: \*Glass, \*Lead compounds, \*Sulfates,  
Fused materials, Optics.

In the three-phase system  $PbO-SiO_2-SO_3$  one obtains  
homogeneous glasses with extraordinarily high  $SO_3$   
content. Some such glasses are described. (Author)

(Materials--Ceramics, TT, v. 8, no. 6)

62-16137

I. Merker, L.  
II. Wondratschek, H.

Office of Technical Services



Patterson, Wilhelm and Bodmer, Ernst.  
ULTRASONIC TESTING OF CAST IRONS WITH  
LAMINAR AND SPHEROIDAL GRAPHITE FORMATION.  
[1962] [16]p. 20 refs.  
Order from SLA \$1.60

62-14424

Trans. of ~~Gleeserei~~ Technische Wissenschaftliche  
Beihfte (West Germany) 1957, no. 17, p. 909-917.

DESCRIPTORS: \*Non-destructive testing, \*Ultrasonic  
radiation, Velocity, \*Cast iron, \*Graphite, Elasticity,  
Shear stresses.

Ultrasonic speed measurements were made for both  
longitudinal and transverse waves in test pieces of cast  
iron with differing textural formations. From the  
different speeds recorded it is possible to differentiate  
between a laminar and spheroidal graphite formation.  
Using the same measurements it is possible to make an  
approximation of the modulus of elasticity in shear and  
in tension, and Poisson's ratio. (Author)

62-14424

I. Patterson, W.  
II. Bodmer, F.

(Metallurgy--Ferrous Metals,  
TT, v. 10, no. 2)

Office of Technical Services

On the Measurement of Vapor Pressure and Velocity of  
Vaporization of Glass Forming Substances, by Karl-  
George Guntter, 17 pp.  
*George Guntter*

GERMAN, per, Glastech Ber, Vol XXXI, No 1, 1958,  
pp 9-15.

SLA 59-16931

Sci - Chem  
Sep 59  
Vol 2, No 1

97918

Rötger, Helmut.

ON THE ELASTIC RELAXATION BEHAVIOR OF SIM-  
PLE AND MIXED ALKALI SILICATES AND BORAX  
(Über das Elastische Relaxationsverhalten von Einfachen  
und Gemischten Alkali-Silikaten und von Borax). [1962]  
[23]p. (foreign text included) 24 refs.

Order from SLA \$2.60

62-16139

Trans. of Glastechn[ische] Ber[ichte] (West Germany)  
1958, v. 31, no. 2, p. 54-60.

DESCRIPTORS: Borax, \*Borates, Alkali metal com-  
pounds, \*Silicates, Silicon compounds, Elasticity,  
Hysteresis, Temperature, Mixtures, Relaxation time,  
\*Glass, Bonding, \*Optical glass.

Two strongly pronounced, elastic hysteresis maxima  
were always found in the temperature range from -180°  
to plus 300°C with lithium, sodium and potassium sili-  
cates and their mixtures. The activation energies of  
(Materials--Ceramics, TT, v. 9, no. 1) (over)

62-16139

1. Rötger, H.

Office of Technical Services

Flame-Photometric Aluminum Determination in Glass,  
by Friedrich Hegemann, Walter Hert, Wolfgang Schmid;  
~~27~~ pp.

10

GERMAN, per, Glastech Ber Vol XXXI, No 3, 1958,  
pp 81-84.

SLA 59-10932

Sci - Engr

Jul 59

OTS I, 11

91,034

Analysis of the Image of a Fracture in Flat Glass,  
by Hans Jessen-Kristensen, 6 pp.

GERMAN, per, Glastech Ber. Vol XXXI, No 3, 1958,  
pp 93, 94.

SLA 59-10933

Sci - Chem  
Sep 59  
Vol 2, No 1

97, 920

Determination of the Viscosity-Temperature Curve  
With the Aid of Two Fixed Points, by Oscar Knapp,  
3 pp.

GERMAN, per, Glastech. Ber., Vol XXXI, No 3, 1958,  
pp 94, 95.

SIA 59-10934

Sci - Chem  
Sep 59  
Vol 2, No 1

97, 921

The Absorption Spectra of  $\gamma$ -Irradiated Quartz Glasses  
and Amethyst and Their Changes on Transmission of  
Electric Current, by J. Lietz, W. Koenigberg, 12 pp.

GERMAN, per, Glastech Ber, Vol XXXI, No 4, 1958, pp  
121-124.

SIA 50-19035

Sci - Engr  
Jul 59  
OTS I, 11

91,035

62-18110

1. Engel, F.

ON THE HYSTERESIS IN POLARIMETER CURVES  
(Zur Hysteresis bei Polarimeterkurven). [1962] [19]p.  
(foreign text included) 9 refs.  
Order from SLA \$1.60

62-18110

Trans. of Glastechnische Berichte (West Germany)  
1958, v. 31, no. 4, p. 133-137.

DESCRIPTORS: \*Polarographic analysis, \*Hysteresis,  
Glass, Metals, Bonding, \*Seals, Test methods.

Polarimeter curves of glass metal seals are recorded  
with a new device. The curves show a hysteresis which  
depends on the velocity of the heating-and cooling proc-  
ess. Reference is made to corresponding phenomena  
in dilatometric measurements, and an interpretation is  
submitted on the basis of the glass structure. (Author)

(Research Methods, Techniques and Equipment, TT,  
v. 9, no. 4)

Office of Technical Services



About the Leachability of "Ambulant"  $\text{SO}_2$  from  
Gas-Treated Glass Surfaces and Its Bonding to  
the Building Constituents of the Glass, by  
Inge Hilgenfeldt, Hans Jebesen-Marvedal, 45 pp.

GERMAN, per, Glastechnische Berichte, 1958,  
Vol XXXI, No 5, pp 161-170.

SLA 59-10936

Sci - Chem  
OTS I, 12  
Jul 59

92, 298

Lehnert, Lothar H.  
INVESTIGATION OF STRESSES IN HOLLOW GLASS  
VESSELS (Über die Spannungsprüfung von  
Hohlglasgefassen). [1962] [14]p. (foreign text in-  
cluded) 3 refs.  
Order from SLA \$1.60

62-18126

Trans. of Glastech[nische] Berichte (West Germany)  
1958, v. 37, no. 5, p. 176-179.

DESCRIPTORS: \*Pressure vessels, Walls, Photo-  
elasticity, \*Glass, Stresses, Model tests, Light  
transmission, Refractive properties.

(Materials--Ceramics, TT, v. 9, no. 3)

62-18126

I. Lehnert, L. H.

Office of Technical Services

The Heat Requirement of Silicate Glass Formation,  
by Carl Kroger, Wilhelm Janetsko, Kretlow, 28 p.

GERMAN, per, Glastechnische Berichte, 1958, Vol XXXI,  
No 6, pp 221-228.

SIA 59-10937

Sci  
Dec 59  
Vol 2, No 6

103 940

62-10935

Metzner, Roland, Scheer, Max-Martin, and  
Scholze, Horst.

A RAPID QUANTITATIVE BORON DETERMINATION  
IN GLASSES WITH THE AID OF THE ABSORPTION  
OF NEUTRONS (Eine Schnelle Quantitative  
Borbestimmung in Gläsern mit Hilfe der Absorption  
von Neutronen). [1962] [16]p. (foreign text included)  
8 refs.

Order from SLA \$1.60

62-10935

Trans. of Glastechn[ische] Ber[ichte] (West Germany)  
1958, v. 31, no. 7, p. 257-260.

DESCRIPTORS: \*Glass, \*Boron, Neutron absorption,  
Thermal neutrons, Determination.

A nuclear physical measuring procedure is given,  
which permits a comparatively rapid and simple  
quantitative determination of the B<sub>2</sub>O<sub>3</sub> content of  
glasses with the aid of neutron absorption in the boron.  
(Materials--Ceramics, IT, v. 8, no. 6) (over)

I. Metzner, R.  
II. Scheer, M.-M.  
III. Scholze, H.

Office of Technical Services

Diffusion Process About Sand Grains, by J. Loffler.

GERMAN, per, Glasstechnische Berichte, Vol XXXI,  
1958, pp 260-269.

CSIRO

Oct. 62

Diffusion Patterns Around the Sand Particles. II,  
by Johannes Ioeffler, 5 pp.

GERMAN, per, Glastech Ber, Vol XXXI, No 7, 1958,  
pp 268-269.

SIA 59-10938

Sci - Phys  
Sep 59  
Vol 2, No 1

97, 923

Sound Insulation of Glasses and  
Glazing ~~XX~~ (1) Permanently Built-In  
Windows of Single Glazing, by A. Eisenberg.

GERMAN, per, Glastechnische Berichte,  
Vol XXII, No 8, 1958, pp 297-302.

CSIRO

Sci - Engr, Phys  
Jul 62

204,889

Rhythmic Precipitation on Glass Through  
Delayed Diffusion (Liesegang Rings), by  
Hans Jetsen-Marvedel, 14 pp.

GERMAN, per, Glastech Ber, 1958, Vol XXXI,  
No 8, pp 311-315.

SLA 59-10939

Sci - Phys  
OTS I, 12  
Jul 59

92, 301



Teisen, Th.  
THE UNIFLOW CONTINUOUS GLASS MELTING  
FURNACE (Der Uniflow-Wannen-Ofen). [1962] [19]p.  
(foreign text included) 4 refs.  
Order from SLA \$1.60

62-10946

Trans. of Glastechn[ische] Ber[ichte] (West Germany)  
1958, v. 31, no. 9, p. 349-353.

DESCRIPTORS: \*Glass, Melting, Production, Oil-  
burning furnaces, Fuel consumption.

Construction and working method of the Uniflow con-  
tinuous glass melting furnace is explained. This f.u.-  
nace type is suitable above all for medium size units;  
it is shown that it fulfills the requirements to be set  
a good melting furnace to a high degree. (Author)

(Materials--Ceramics, TT, v. 8, no. 6)

62-10946

1. Teisen, T.

Office of Technical Services

Kerkhof, Frank and Manitz, Gerhart.  
FRACTURE TRACING BY INTERFERING ULTRA-  
SOUND WAVES (Bruchzeichnung durch Interferierende  
Ultraschallwellen). [1962] [18]p. (foreign text included)  
3 refs.

Order from SLA \$1.60

62-16140

Trans. of Glastechn[ische] Ber[ichte] (West Germany)  
1958, v. 31, no. 10, p. 377-381.

DESCRIPTORS: \*Glass, \*Fracture (Mechanics),  
\*Ultrasonic radiation, \*Acrylic resins, Elasticity,  
Brittle materials, Ultrasonics.

(Materials--Ceramics, TT, v. 8, no. 6)

62-16140

I. Kerkhof, F.  
II. Manitz, G.

Office of Technical Services

Silk-Screening; A Decorating Process for Glass, by  
Kurt Beversdorfer, 30 pp.

GERMAN, per, Glastechnische Berichte, Vol XXXI,  
No 10, 1958, pp 386-394.

SLA 59-1C940

Sci - Engr  
Jul 59  
OTS I, 11

91,031

Infra-Red Bands in Freshly Prepared and  
Weathered  $B_2O_3$  Glass, by R. Bruckner,  
H. Scholze.

GERMAN, per, Glastechnische Berichte,  
Vol XXXI, 1958, pp 417-422.

CSIRO

Sci - Phys  
Jul 62

203,457